

ABSTRACT

ISOLATION OF MICROWAVE TRANSMISSION LINES

5 An optical waveguide is formed over a substrate, with an
insulating planarization layer formed adjacent the
optical waveguide and level with the top of the waveguide
A microwave transmission line is formed over the
planarization layer and overlies a top surface of the
10 optical waveguide. In this circuit, isolation of a
microwave transmission line is provided by forming the
line over a planarization layer which fills the space
adjacent to an optical waveguide structure. The
transmission line can then contact electrically the top
15 surface of the waveguide structure but is isolated from
the substrate which supports the waveguide.

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